

552,339

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number  
**WO 2004/087328 A1**

(51) International Patent Classification<sup>7</sup>: **B05B 1/00**,  
1/28, 1/30, 7/04, 15/02

(21) International Application Number:  
PCT/US2004/009112

(22) International Filing Date: 26 March 2004 (26.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/457,963 27 March 2003 (27.03.2003) US

(71) Applicant (for all designated States except US): **SPRAY-  
ING SYSTEMS CO.** [US/US]; North Avenue at Schmale  
Road, P.O. Box 7900, Wheaton, IL 60189-7900 (US).

(72) Inventor: **HUFFMAN, David, C.**; 60 Amherst Road,  
Merrimack, NH 03054 (US).

(74) Agents: **BAYS, Gregory, C. et al.**; Leydig, Voit & Mayer,  
LTD., Two Prudential Plaza, Suite 4900, 180 N Stetson Av.,  
Chicago, IL 60601-6780 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

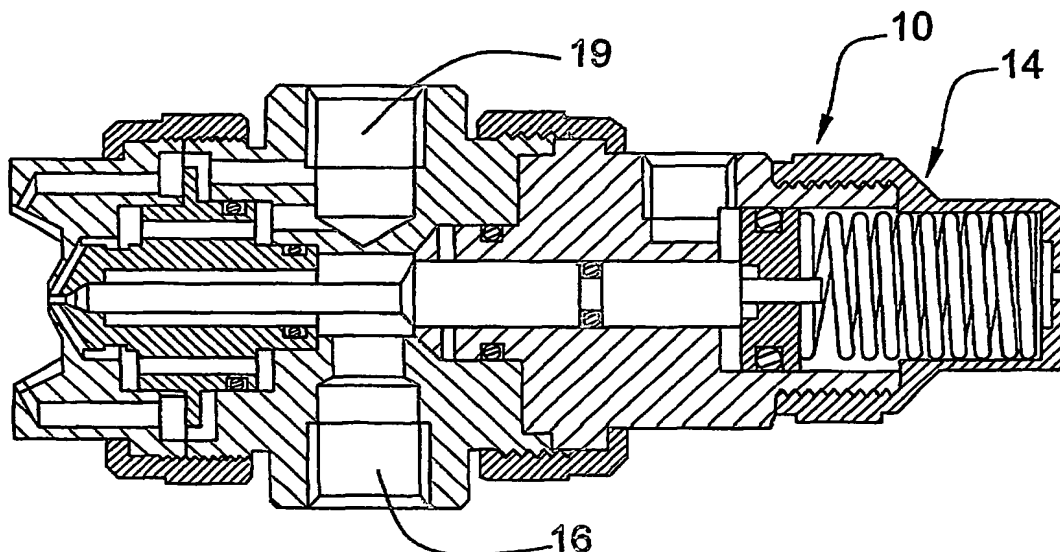
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: MODULAR SPRAY GUN WITH MULTIPLE CONTROL MODULES



(57) Abstract: A modular spray gun assembly is provided. The modular spray gun assembly includes a spray gun body, a spray nozzle module and a plurality of control modules. The spray nozzle module is releaseably attachable to a downstream end of the nozzle body with a first retainer that engages a portion of the downstream end of the spray gun body. The plurality of control modules are interchangeably mountable on an upstream end of the spray gun body. A portion of each control module is receivable in a counterbore in the upstream end of the spray gun body. Each control module is releaseably attachable to the spray gun body with a second retainer that engages a portion of the upstream end of the spray gun body.

WO 2004/087328 A1